Universal GSM Intercom/Opener

(forVIDEX, FARFISA intercoms)

Model: GSM-x31-3bi

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INTRODUCTION

The information in this manual is intended as an installation and commissioning guide for the GSM door intercom system. This manual should be read carefully before the installation commences.
Any damage caused to the equipment due to faulty installations where the information in this manual has not been followed is not the responsibility of New World Security.

SYSTEM INTRODUCTION

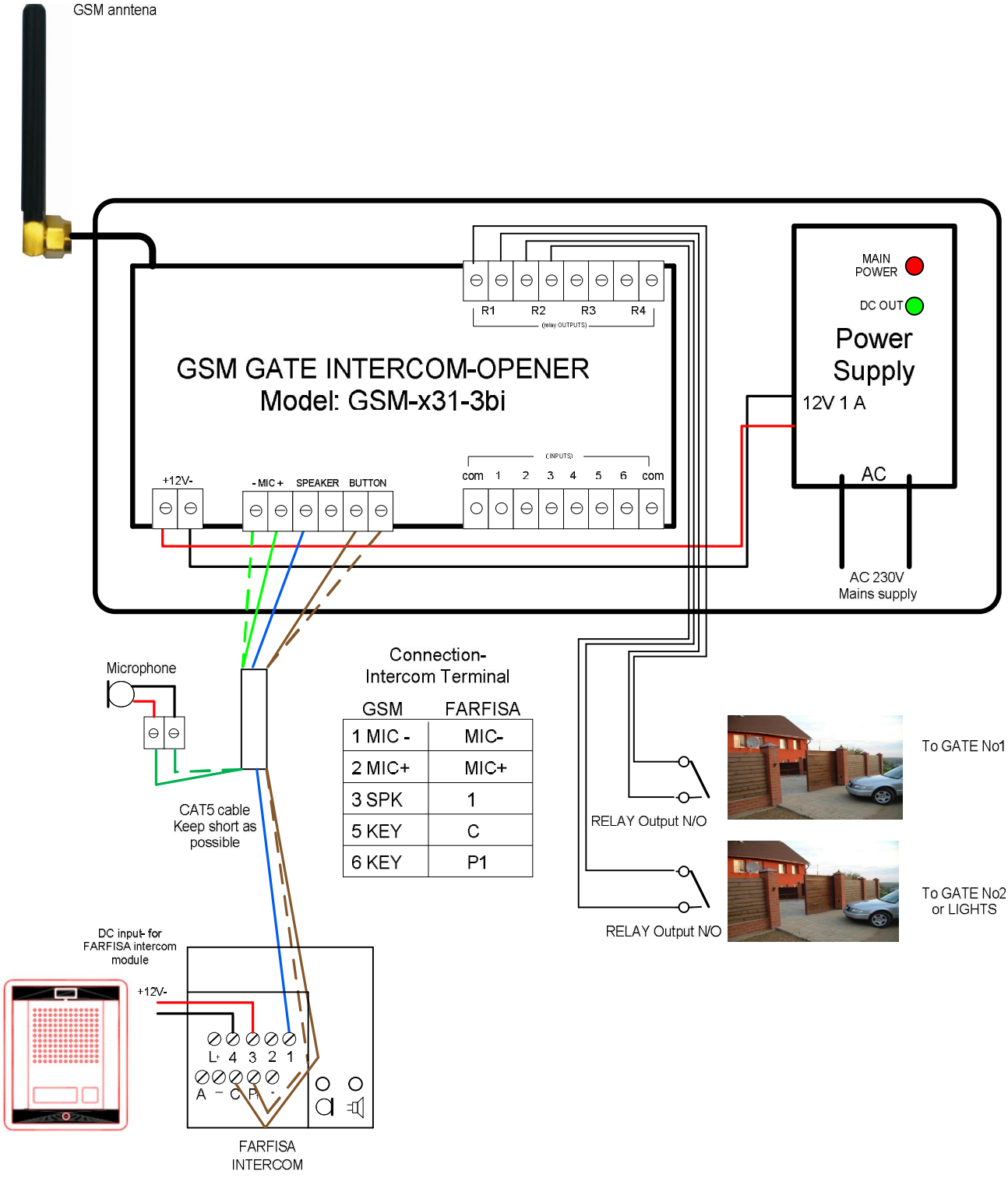
The GSM Gate Intercom-Opener model: GSM-x31-3bi perfect for secured residential and commercial property, with worldwide remote control from your mobile handset.
GSM x31-3bi can be installed outside the premises on the gate as an intercom.
When the Intercom call button is pressed, the GSM Intercom will dial out to the pre-programmed ADMIN number and inform the owner about the visitor at the gate.
The ADMIN can answer the call and speak to the visitor and open the gate with one of the buttons of his phone if he wishes to let the guest in.
Next way to open gate for Pre-programmed Users, just need dial to the gate number, this is Free of charge!

SYSTEM FEATURES

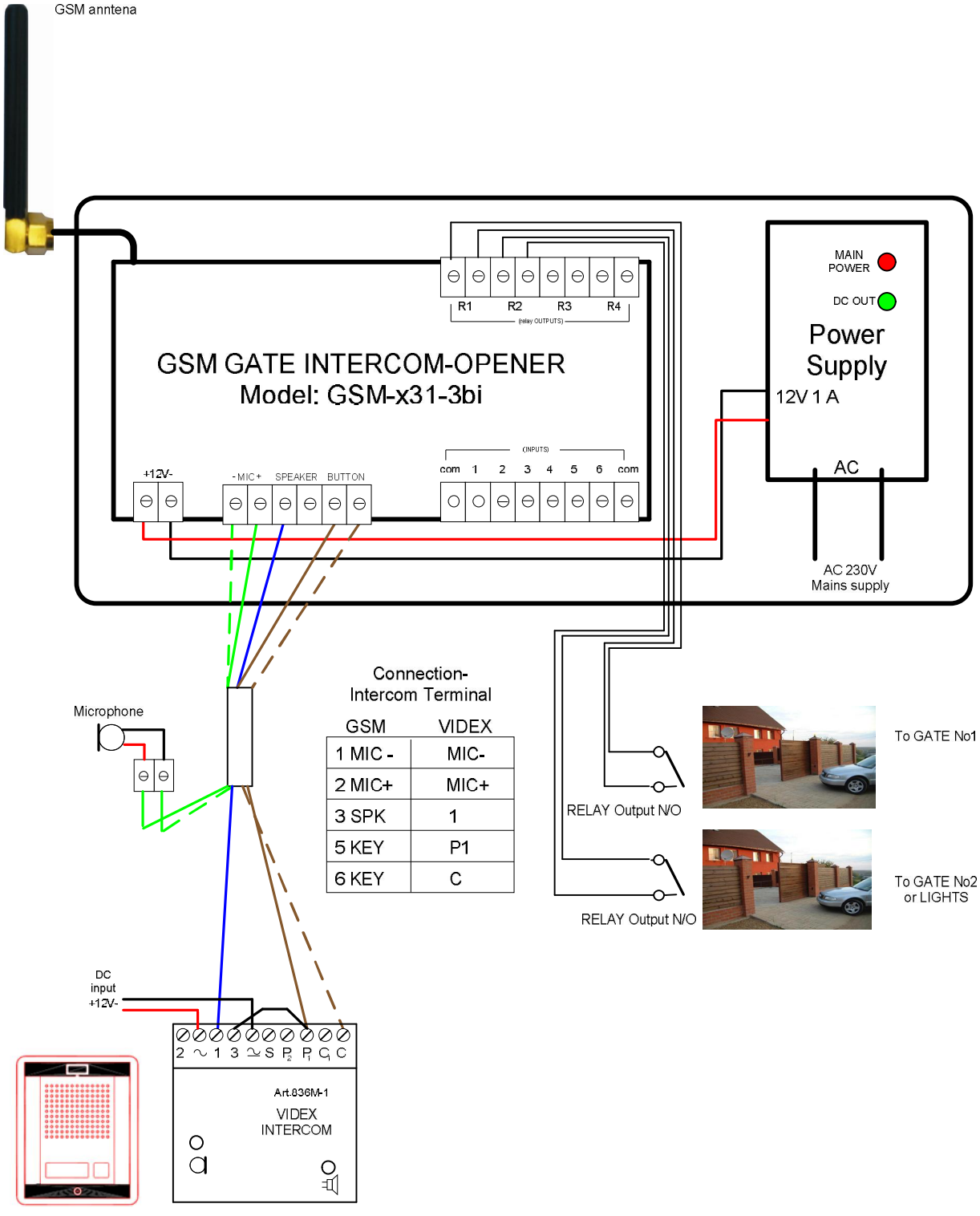
*** GSM Quad-band GSM/GPRS module for use in Europe and U.S**
*** 6 INPUTS and 4 RELAY OUTPUTS (optional 16 INPUTS)**
*** 4 Gate Independent Remote control by SMS (each gate separate)**
*** Access control by free call for Authorised Users**
*** Gate open/close by timer (hold open or time delay switch)**
*** Each User gate access management**
*** Up to 250 users optional 500 users**
*** Automatic call credit control with SMS alert**
*** Remote system parameters control**
*** Easy installation and automatic setup**
*** Add or Delete Users by SMS**
*** Service Engineer system remote programming and testing**
*** LED lights for system status control**
*** 12 volt mains power**
*** PCB dimensions 110 x65 mm, Weight 0.1kg**

INSTALLATION

FARFISA INTERCOM



VIDEX INTERCOM



	CONNECTION	DESCRIPTION
1	12V	12VDC 1A
2	GND	Ground connection
		INTERCOM
3	-MIC	Microphone -
4	+MIC	Microphone +
5	SPK	Speaker
6	SPK	Speaker
7	KEY	Auxiliary input connect to intercom call button
8	KEY	Auxiliary input connect to intercom call button
		INPUTS
10	COM	Input signal Ground connection
11	1	Input signal No1
12	2	Input signal No2
13	3	Input signal No3
14	4	Input signal No4
15	5	Input signal No5
16	6	Input signal No6
17	COM	Input signal Ground connection
		RELAY OUTPUTS
18,19	R1	OptoMOSFET Relay Output 60VDC 0.1A
20,21	R2	OptoMOSFET Relay Output 60VDC 0.1A
22,23	R3	OptoMOSFET Relay Output 60VDC 0.1A
24,25	R4	OptoMOSFET Relay Output 60VDC 0.1A

Note: An antenna must always be connected. Always route the GSM cable away from the microphone wires and the power supply wires to avoid interference on the speech module.

IMPORTANT NOTE ABOUT SIM CARD

When using a pay monthly SIM card you must ask the service provider to put a spend limit on the account (Vodafone call this service 'spend checker'). This is to safeguard against possible problems which could result in a large phone bill at the end of the month. All providers offer this service. You will need to either ring them or e-mail them to set this up. Automatic top ups should also have a monthly limit.

IMPORTANT!

When mounting the GSM antenna, choose a location which is away from human interaction and away from the alarm panel. Route the GSM antenna cable from the GSM BackUp so that it is separate from the power supply cables Always ensure the power is off to the GSM BackUp before inserting or removing the SIM card.

New SIM cards will need registering before they can be used. Full details of how this is done can normally be found in the SIM card pack. It will normally require that the SIM card is inserted into a mobile phone, a number dialled and instructions followed. While the SIM is in the mobile phone it would be a good time to disable any PIN codes, call diverts, ring back and disable features such as voicemail and text alerts. Details of how to do this can be found on the SIM card provider's web site or by calling their customer services. Please use one of the following SIM card providers (Vodafone, TMobile, O2 or Orange). We do not recommend using 3 at this present time.

SYSTEM SETUP

To make easy Installation, we made smart option on this GSM BackUp system and all main programming job, system will do **automatically!**

1. Insert SIM card with disconnected PIN code to GSM System
2. Connect Alarm panel DIALLER, and Telephone Line to GSM BackUp connectors.
3. Switch power ON.
4. When READY LED ON, switch off power, remove SIM card from GSM system and insert in to your mobile phone ,then go to Address Book to edit ADMIN and USER numbers.
All others settings (SMSCONFIG and WORKCONFIG) system will enter automatically by Factory default.
5. If you want to change GSM system settings, you can do direct on SIM card from your handset, or remotely by SMS.

After automatic system programming, please take out THE SIM card from THE GSM device and insert in to mobile phone. On the SIM card address book you will see information which you can edit:

ADMIN 1

+4400000000 Administrator (ADMIN) has the permit: (ADD/DELETE User numbers check the call credit balance, control Output Relay by SMS)

SERVICE

+353863310929 have permit only for remote programming: (**NO GATE CONTROL**) (SMSCONFIG, SMSINPUTCONFIG, TIMECONFIG WORKCONFIG, get INFO, SMS)

SMSCONFIG Text message configuration (see 2. On User manual)

000000

SMSINPUTCONFIG Inputs configuration to send text messages when Inputs are triggered (see 3. On User manual)

0000000000000000

TIMECONFIG Intercom dialling, talk time configuration (see 5. On user manual)

15251010

USER1 1

+4400000000 User1, first from 3 main users who can control gate if Admin not answer on Intercom mode. Also can control Outputs Relay by text message-if selected, permit SMS control)

USER2 1

+4400000000

USER3 1

+4400000000

WORKCONFIG

000000 Working configuration options (see 1. On user manual)

***100#**

01 Call credit balance code combination (see 5. On user manual)

1. SYSTEM WORK CONFIGURATION

Name cell: **WORKCONFIG**
Number field cell: **110000**
Comment:
1st number = *permission to control relays, if any relay is switched On.*
"0" = *deny*. "1" = *allow*;

2nd number = *control relays via SMS.*
"0" = *all users*. "1" = *only* a*dministrator*;

3rd number =*Dial to ADMIN if any Inputs triggered.*
"0" = *deny*. "1" = *allow*;

4th number =*Inputs/Outputs Extension module up to 16 Inputs*.
"0" = *not connected*. "1" = *connected;*

5th number = *controller operating mode*.
"0" = *Gate Intercom/Opener mode*. "1" *Alarm system mode*;

6th number = *Alarm Siren activation (in Alarm mode only).*
"0" = *only when Alarm*. "1" = *short beep, Arm/Disarm mode (not use in Intercom mode)*

2. SYSTEM SMS CONFIGURATION

Name cell: **SMSCONFIG**
Number field cell: **010010**
Comment:
1st number = SMS about power On/Off.
"0" = *deny*. "1" = *allow*;

2nd number = *sending SMS to Administrator (ADMIN) when calling unauthorized person to system*
"0" = *deny*. "1" = *allow*;

3rd number = *SMS about Relay On/Off activation*.
"0" = *deny*. "1" = *allow anyway*; "2" = *allow if Relay On*; "3" = *allow if Relay Off;*

4th number = *send SMS about external inputs status*
"0" = *send to admin*. "1" = *send to the admin and Users;*

5th number = *call credits limit balance information SMS*
"0" = *send to administrator and Service engineer*. "1" = *send to any number by request;*

6th number = *response SMS to manage security reaction (not use in Intercom mode)*
"0" = *only who arm/disarm the alarm*. "1" = *who arm/disarm alarm and send copy SMS to the Admin number also*;

3. SMS INPUT CONFIGURATION

Name cell: **SMSINPUTCONFIG**
Number field cell: **0000000000000000**
Comment:
1st number = SMS about Input No1
2nd number = SMS about Input No2
3rd number = SMS about Input No3
4th number = SMS about Input No4
5th number = SMS about Input No5
6th number = SMS about Input No6
7th number = SMS about Input No7
8tht number = SMS about Input No8
9th number = SMS about Input No9
10th number = SMS about Input No10
11th number = SMS about Input No11
12th number = SMS about Input No12
13th number = SMS about Input No13
14th number = SMS about Input No14
15th number = SMS about Input No15
16th number = SMS about Input No16

When Input is triggered, controller will send SMS to Admin number
"0" = *deny*. "1" = *send SMS on connection and disconnection*, "2" = *send SMS on connection NO,* "3" = *send SMS disconnect NC ,* Alarm mode settings- *"4"=Full control Inputs (doors, windows, motion sensors), "5"= external perimeter control beams*

4. ENGINEER SERVICE NUMBER

Name cell: **SERVICE**
Number field cell**:+353863310929**

Comment:
Telephone number Service engineer :(can only do remote system programming)
* By default is Manufacturer number +353863310929 but you can change it to your service engineer number

5. CONFIGURATION TIME INTERVALS

Name cell: **TIMECONFIG**
Number field cell: **15251001**

Comment:
1st and 2nd number = *Intercom dial time to Admin number in sec. (01-99sec)*
3rd and 4th number = *talk time with a door intercom when the call has been answered in sec. (01-99sec)*
5th number = *Output relay off delay in sec (1-9) on short call relay control mode*
6th number = *Cal credit balance checking in hours. (0-9h) (0-do not check)*
7th and 8th number = *Siren working time in alarm mode (01-99sec), Unused in Gate Intercom/Opener mode.*

6. CHECKING THE BALANCE

Call credit balance control and minimum balance settings by SDL code:

Name cell: ***XXX #**
Number field cell: **05**

Comment:
Different Operator has different call credits control code combination.
In the number field is from 1 to 4 numbers (0-9999), meaning the balance on the account. The tools below a certain threshold, the Administrator will copy phone SMS from operator with balance.

*Note: The balance can only be checked if the correct balance check string has previously been stored using SDL code

7. ADMIN AND 3 MAIN USER NUMBERS

Name cell: **ADMIN 1**
Number field cell:**+4400000000000**

Comment:
Administrator phone number: (only for control and add/dell numbers)
No programming option

Name cell:**USER1 1**
Number field cell**:+4400000000**

Comment:
USER1 number and can control only Relay1

Name cell:**USER2 123**
Number field cell:**+4400000000000**

Comment:
USER2 number and can control only Relay1, Relay2 and Relay3

Name cell:**USER3 14**
Number field cell:**+440000000000**

Comment:
USER3 number and can control only Relay1 and Relay4

.

*Note: All entered symbols are CAPITAL

8. SYSTEM OPERATION

CONTROL Output Relay by SMS

Format SMS to control relay : <Rxxx ><xHxxMIN>
Examples:
Relay 1 in 5 minutes: **R1ON 5 MIN**
Relay 2 to 8 hours 26 minutes: **R2ON 8H26MIN**
Relay 3- turn On **R3ON**
Relay 3- turn Off: **R3OFF**

Format answering SMS: <RXxx >
Example: **R1On**
Example: **R2Off**

Control relay via SMS (similar like a short free call to the controller):
Format SMS to manage: <OPEN>
Example: **OPEN**

Getting information about the device:
Format SMS query: <INFO>
Example: **INFO**

Response SMS: *Voltage13 .8V; Network 72%; Temper. + 24 c. R1-ON; R2-OFF; R3-OFF; R4-ON*

Getting information from the operator's account and other information:
Format SMS query: <CREDITS> < > request format
Example**:** **CREDITS *101 #**
Example: **CREDITS *101*#**

Response SMS: *device sends a copy of the text received from the Network operator.*

Add new user (maximum 500 subscribers including administrator):
SMS-format to add: <ADD> < username > new
Example: **ADD + 380509631994**

Format response SMS:
Example: **Number+ 380509631994 Add.**

Remove the selected user:
Format SMS to remove: <DEL> > < number
Example: **DEL + 380509631994**

Format response SMS:
Example: **Number+ 380509631994 Deleted.**

SERVICE Query content configuration of cells:

Format SMS query: < name > <?>
Example: **WORKCONFIG ?**
Example: **SMSCONFIG ?**
Example: **SMSINPUTCONFIG ?**
Example: **TIMECONFIG ?**
Format SMS: < name > < <:> cell data >
Example: **WORKCONFIG:0001**
Example: **SMSCONFIG:00101**
Example: **SMSINPUTCONFIG:0000110101000000**
Example: **TIMECONFIG:152512**

Controller INPUT name settings:

If alarm Input is NC and disconnected loop, controller send alarm SMS with text which you can change by your request:

Format SMS to setup text: <TXT> > < Input number><:><new text max20
Example:
SMS text for Input1 connect TXT I1ON: Alarm temperature!
SMS text for Input1 disconnect TXT I1OFF: Normal temperature
SMS text for Input8 connect TXT I8ON: Alarm! Door OPEN!
SMS text for Input1 disconnect TXT I8OFF:Alarm message 1 OFF

SERVICE Replace the contents of the configuration:

(to replace just edit it and send SMS , came in response to a query)
Format SMS to replace: < name > < <:> cell data >
Example: **WORKCONFIG :1001**
Example: **SMSCONFIG :11101**
Example: **SMSINPUTCONFIG :0101110000000000**
Example: **TIMECONFIG :152584**

Format response SMS: *Write config SIM is successful!*

SMS about the call to the module is not listed in a Subscriber SIM card:

If User not from controller address book will call in to the system, controller take dialler number and resend to Admin number.

Format SMS: The attempt is not authorized access:+ 353509631994

ALARM system control by SMS

Alarm activation ARM

Format SMS query: **ARM**

Format response SMS:

If sensors not ready **:** **ARM not possible! Please check Input sensors**

When all OK **:** **OK! System ARMED!**

If system was ARMED: **Warning! System already ARMED**

Perimeter Alarm activation ARM PERIMETER

Format SMS query: **ARM PERIMETER**

Format response SMS:

If sensors not ready **:** **ARM not possible! Please check Input sensors**

When all OK **:** **OK! Perimeter ARMED!**

If system was ARMED: **Warning! System already ARMED**

Alarm deactivation DISARM

Format SMS query: **DISARM**

Format response SMS:

When all OK **:** **OK! DISARMED!**

If system was DISARMED: **Warning! System already DISARMED**

OUTPUT RELAY control by phone

(Gate Intercom/Remote mode)

When GSM controller receives a call from USER, it will check the calling number and if the number is in the list you have prepared it will reject the call and switch On Relay.

The GSM system doesn't answer the call; it simply checks the caller ID.

Your network must send the caller ID otherwise it will not work.

Usually operators don't charge until you answer the call, so it won't cost you anything to control external equipment.

(Alarm mode)

When WORKCONFIG 5th number is “1” (Alarm system mode) , OUTPUT Relay :

R1 –alarm LED Indicator

R2- siren

R3,R4- for any other external equipment control by SMS

To ARM Alarm system – need make a call to controller and after 2-3 rings hang-up handset System call-back once, to confirm- system Armed (not need answer to call).

To DISARM – need make a call to controller and wait until controller reject call. System Disarmed. If in one minute will be no trigger signal on any Input, system will go to ARM mode automatically, and call-back once, to confirm- system is Armed (not need answer to call).

Barclay-Phelps

CE Marking Consultants

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CERTIFICATE & DECLARATION OF CONFORMITY FOR CE MARKING

Barclay-Phelps certificate number: BPC/0559/10

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NEW WORLD SECURITY declares that their:
GSM OPENER/INTERCOM model: GSM x31-3bi
GSM ALARM BACKUP model: GSM X31-3PS

are classified within the following EU Directives:
R&TTE Directive 1999/5/EC
Low Voltage Directive 2006/95/EC

and further conform with the following EU Harmonized Standards:
EN 301 489-3 V1.4.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

EN 60950-1:2006+A1:2010 Information technology equipment — Safety — Part 1: General requirements

Dated: 24 July 2010
Position of signatory: Company owner
Name of Signatory: ANDRIUS DAUGINAS
Signed below:
p.p. NEWWORLD SECURITY

The authenticity of this certificate can be obtained by contacting Barclay-Phelps at : barclayphelps@gmail.com

Manufacturer: www.New –World-Security.com
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